



100 kHz ~ 1299.995 MHz, AM, WFM, NFM

# AR-Mini

## Water resistant hand-held communications receiver



- **WATER RESISTANT:** Meets JIS4 waterproof standards to protect against spray and splash
- **TCXO** for greater stability (+/-2.5 ppm)
- **Long battery life!** Approx. 22 hours of operation on supplied Ni-MH batteries
- **1000 memory channels**

◀ Actual Size

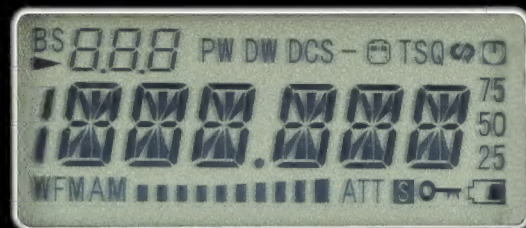
- **Free memory management** software to download
- **CTCSS & DCS**
- **Voice inverter descrambler** (not available for US domestic version)
- **Preprogrammed bug detector** frequencies (with level beep)





# AR-Mini

- Priority channel watch
- 2 VFO
- Cloning capability (AR-Mini to other AR-Mini, or through PC)
- Memory channel skip
- RF attenuator
- Earphone cord antenna capability
- Built-in ferrite bar antenna for AM broadcasts (100 kHz~5 MHz)
- Battery save function, auto power off timer
- Automatic or selectable tuning steps
- Signal meter
- Low battery indicator



## AR-Mini Specifications

Frequency Range	100 kHz~1299.995 MHz (*)		
Circuit type	AM, FM: Triple conversion super-heterodyne WFM: Double conversion super-heterodyne		
Receiving Modes	AM, WFM, NFM		
IF bandwidth	AM/NFM: 15 kHz, WFM: 220 kHz		
Memory Channels	1000 (10 banks x 100 channels)		
Scan speed	8 steps/sec.		
Select scan channels	100		
Priority channels	1		
Pass frequencies	100		
Sensitivity (typical)	AM (10dB S/N)	0.2~5 MHz	1.3μV
		5~160 MHz	0.6μV
		160~370 MHz	0.6μV
		370~520 MHz	0.6μV
		520~1300 MHz	0.7μV
	FM (12dB SINAD)	5~160 MHz	0.2μV
		160~370 MHz	0.2μV
		370~520 MHz	0.28μV
		520~1300 MHz	0.35μV
	WFM (12dB SINAD)	5~160 MHz	0.9μV
		160~370 MHz	0.8μV
		370~520 MHz	1μV
		520~1300 MHz	1μV
Intermediate frequencies	243.95 MHz, 21.7 MHz, 450 kHz		
Tuning steps	5, 6.25, 8.33*, 9*, 10, 12.5, 15, 20, 25, 30, 50, 100 kHz (* Selectable depending on bands)		
Selectivity	AM/FM: More than 15 kHz / -6dB WFM: More than 110 kHz / -6dB		
Conducted spurious emissions	Less than -54 dBm		
Frequency stability	±2.5 ppm (by TCXO)		
AF output power	100 mW, at 10% distortion with an 8Ω load		
External speaker connector	3.5 mm mono jack		
Antenna connector	SMA (50Ω)		
Battery requirement	2 x AA (LR6) Ni-MH or alkaline cells		
Battery life	Approx. 22h in normal listening mode		
External power supply	6V DC, 500 mA		
Current drain (approx.)	110 mA (Receive, AF output 50 mW)		
	20 mA (Standby, saver 1:4 on)		
	65 mA (Standby, saver off)		
Operating Temperature	-10~+50°C, 14~122°F		
Dimensions	60(W)x95(H)x24(D) mm		
(projections excluded)	2.4"x3.7"x0.9"		
Weight	210g (with antenna and batteries) 7.4oz		

(\*) Cellular frequencies are blocked in the U.S.A version

## What to listen to?

Analog reception of:

● Car/bike races (pilot to pit communication) ● Weather channels (Instant access to NOAA and other international all hazards and weather info, 24 hours a day) ● Airline traffic ● Marine ● Trains ● Public safety (Police, Fire, EMS, Sheriff, Highway Patrol, Forestry, etc...) ● Amusement park and public park communications ● Radio and television reporters in the field ● Shortwave radio from around the world ● AM radio ● FM radio ● TV audio ● Ham operators

## Supplied accessories

● Two AA size Ni-MH cells (1.2V) ● "A" plug type AC adapter (100~240V). "A" to "C" plug adapter included for European version. ● Antenna ● Belt clip ● Hand strap ● Printed manual

## Options



● AA-mini  
"A" plug type replacement  
AC adapter (100~240V, 6V DC, 500 mA)



● DC-mini  
DC cable with cigar-lighter plug  
(6V DC, 500 mA for 12/24V socket)

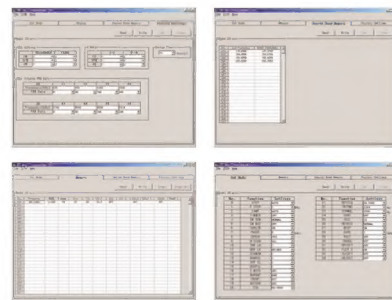


● CO-mini  
Data cloning cable (AR-Mini to AR-Mini)



● PC-mini  
PC cable (USB only)

● SC-Mini soft carrying case  
● SMA to BNC adapter for antenna socket  
● Software "AR-mini Programming Tool". Easily edit & upload memory channel data and adjust the receiver's settings. No CD supplied. The software can be downloaded free of charge on our website [www.aorja.com](http://www.aorja.com).



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Product designs and specifications are subject to change without notice or obligation.

(\*) Cellular blocked for US consumer version. Unblocked version available to qualified purchasers; documentation required in the USA.

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